DEFENSE INTELLIGENCE AGENCY

DEPARTMENT OF DEFENSE INTELLIGENCE MANAGEMENT SYSTEM

SECURITY CONCEPT OF OPERATIONS

Prepared For
DoDIMS PMO
National Intelligence Production Center
DIA/PO-5C

Prepared By
J.G. Van Dyke & Associates, Inc.
6550 Rock Spring Drive, Suite 360
Bethesda, Maryland 20817

November 14, 1994

FOREWARD

The Department of Defense Intelligence Management System (DoDIMS) Security Concept of Operation is being written as part of a generic set of accreditation documentation to support accreditation of DoDIMS at specific user sites. Each site will need to review this documentation and modify it, as necessary, to address specific site environment in which DoDIMS will operate.

Table of Contents

Section **Page**

1.0 **Executive Summary**

The Department of Defense Intelligence Management System (DoDIMS) is a software application designed to support the DoD and National intelligence communities in registering, validating, tracking and managing production requirements. It provides the mechanism for scheduling, deconflicting, assigning production and most importantly, provides the capability to track and manage overall production activities across operational and national planners and consumers. The DoDIMS program is structured under the definition of a DoDIIS Core product. DoDIMS will operate in a system high mode at the Top Secret (TS), SCI Level.

DoDIMS will function as a client server-application using the Joint Deployable Intelligence Support System (JDISS) to host the DoDIMS application. Through a replication server process, each DoDIMS site will update other DoDIMS peer databases. Thus, a local site will have read/write capability of its respective data but a read only capability of data from remote, peer sites. Eventually, a master, read-only DoDIMS database will be established at the Defense Intelligence Analysis Center. The Joint World-wide Intelligence Communications System (JWICS) will provide the network support for DoDIMS client-server communications. Use of JDISS, a current operational and accredited system, will allow connectivity with other intelligence systems required to support users during peacetime, crises, and wartime. The DoDIMS user will, therefore, have an integrated and interoperable tactical intelligence capability that includes host access, electronic mail, message handling, image processing, motion video processing and graphics capability.

2.0 **Purpose of System**

DoDIMS is designed to provide members of the DoD and National intelligence community a common application to support the registration and tracking of intelligence requirements and production for General Military Intelligence, Current Intelligence and Crisis Intelligence, Scientific and Technical Intelligence, and Imagery Analysis.

2.1 **Mission Supported**

DoDIMS supports an initiative by DIA and the National Intelligence Producers Board (NIPB) to consolidate all intelligence production management into one system and to establish a community-wide production management and information system to permit better decision making regarding resources.

2.2 **Requirement for the System**

DoDIMS supports the DoD and National intelligence community in the registeration, validation, tracking and management of production requirements and intelligence production scheduling.

3.0 System Description

3.1 System Name and Location

Department of Defense Intelligence Management System; *location to be provided by each site sponsor*

3.2 System Architecture

DoDIMS is a client-server application developed in accordance with DoD and DIA information system architectural standards. It consists of five client modules which reside on a JDISS workstation and a database co-hosted on the workstation. Eventually a master, read-only database will be established on a dedicated server at the DIAC.

3.2.1 Hardware

DoDIMS currently utilizes a JDISS workstation to host both client application modules and a server database. All systems will be based on a standard JDISS configuration. The hardware for the master database to be installed at the DIAC is to be determined. The standard configuration is as follows, however, *site specific configurations may differ*:

  - Sun SPARCStation 2/10/20 with 32 or 64 MB RAM
  - Sun High Resolution Color Monitor
  - Sun CD-ROM Drive
  - 1.3 GB internal and 2.1 GB external hard drives (minimum)
  - Ethernet Transceiver
  - Two (2) serial ports
  - Bi-directional Printer Port
  - 8mm Tape Drive
  - Mouse
  - NeWSprinter CL+ Color Printer

3.2.2 Software

DoDIMS/JDISS software consists of both commercial-off-the-shelf software, DoDIMS- unique software developed under Government contract and Government-Furnished software

3.2.2.1 COTS Software

COTS software consists of the following

  - SUN OS 4.1.3
  - X-windows X11.R5

- OSF Motif 1.2
- Looking Glass Professional 3.0
- ApplixWare 2.1
- ELT/2 2.2.10-R4 with TACO2
- Open Connect TN3270 with graphic option
- TEEMX
- XNVDET
- Sybase 10.0.1
- Sybase Replication Server 10.0.1
- Gain Momentum Runtime
- Newsprint

3.2.2.2 **DoDIMS-Unique Software**

3.2.2.2.1 **Client Software**

DoDIMS-unique client software is in the application written in Gain Eextension Language (GEL) to provide the following modules:

a. Requirements Module. This module provides the user with an automated Production Requirements (PR) process in support of both crisis and non-crisis requests. It provides the intelligence consumer a mechanism to register production requirements and forward them to the appropriate validating organization and, where applicable, any additional authorities. Once validation occurs, a production center is notified of the PRs existence. After reviewing the PR, and coordinating with collaborative production centers if appropriate, the production center sends the consumer a response on the proposed production actions. At any given time, a customer and/or validator has the ability to track the status of the PR through its organization and to the producing organization.

b. Assignment Module. As production requirements are fully validated, this module will automatically enter the responsible production center information for assignment based on geographical and functional areas. For requests comprising more than one responsible producer areas, the validator will select primary and collaborative producers. This final validating authority is empowered to override the assignment criteria as necessary. DoDIMS will not assign production without an appropriate link to a validated requirement to ensure production resources are being utilized to satisfy consumer requirements.

c. Production Module. This module makes available to the community an on-line production schedule. Production center production managers will have the ability to input and maintain their annual scheduled production. In addition, deconfliction will be accomplished as new information is submitted. An individual entering data will review perceived duplicate entries prior to submitting a new request. As products are published and production schedule records closed-out, cross-reference information will be available to assist the user in retrieving the publication through DoDIIS Dissemination.

d.   Reports Module. This module makes available to its users a capability to obtain production management information by utilizing either various pre-defined or user-defined reports. Whatever the type of report, a graphics capability is available consisting of Pie, Bar, Area, line column, 3-D types of charts.

e. Assessment Module. This module provides a mechanism by which primarily production managers and functional managers obtain information regarding resource utilization, producer assessments, and production shortfalls.

3.2.2.2.2 Server Software

DoDIMS server software consists of data tables developed within Sybase and Sybase Replication server software.

3.2.2.2.3 Government Furnished Software

JINTACCS Automated Message Processing Software (JAMPS)

3.2.3 Firmware

There is no DoDIMS-unique firmware.

3.2.4 Communications

DoDIMS will use data networking and communications associated with the JDISS workstation. In most cases, the workstation will be attached to a dedicated LAN which will connect to JWICS or connect to a site LAN which will connect to JWICS.

3.3 Systems Operations

3.3.1 System Functions

DoDIMS performs 3 basic functions: 1) register Production Requests and Intelligence Products initialization/updates; 2) replicate data to DoDIMS sites; and 3) update the peer databases and Central Database.

3.3.2 Functions Performed Jointly With Other Systems

DoDIMS currently performs no functions with other systems. Planned functions will allow the user performing the validating role to query other DoDIIS systems for the existence of product information. This planned capability will be a read-only function.

3.3.3 **Information Flow**

3.3.3.1 **Inputs**

DoDIMS will receive input primarily from the user community. Users will be categorized as Requestors, Validators, and Production managers. User inputs will range in classification from unclassified to TS/SI/TK depending on the nature of the production request and/or query. User input will update the database by direct keyboard interface, mouse activation, and indirectly by the application environment, e.g., cut and paste. Updates of the database tables will be performed as a system administration function. Inputs for updating system tables will be by file transfer protocol (FTP), floppy diskette or 8mm tape.

3.3.3.2 **Outputs**

The principal output will be visual via a display monitor. The classification level will be permanently displayed on each workstation defaulted to the highest classification level processed by the application. All hard copy output will be appropriately labeled at the top and bottom of each page.

Transactions, i.e., production requests, will be replicated by the COTS database software to applicable DoDIIS sites via JWICS/JDISS. Transaction replication will also be made to both peer databases and the central DoDIMS server resident in the DIAC. Should communication downtime occur, output to the central server will be stored and forwarded by each site's replication process upon re-establishment of the communication link.

3.3.3.3 **Sanitization/Decompartmentation**

DoDIMS will not accomplish sanitization or decompartmentation.

3.3.3.4 **Access by Foreign Nationals**

There will be no access by foreign nationals.

4.0 **Mode of Operation**

DoDIMS will operate in the System High Mode.

4.1 **Sensitivity of Data**

The data processed by DoDIMS will range from Unclassified to TS/SI/TK data. DoDIMS will require that all data be initially handled as TS SI/TK until reliable human review has downgraded any data.

4.2 Clearance Levels/Formal Access Approvals/Need-to-Know

4.2.1 Direct Users

All direct users must possess a TS SI/TK clearance and have a validated need to know. Requests for access to a site DoDIMS must be made through the site ISSO. All direct users must also comply with the local site command or activity procedures in order to obtain access to both the JDISS workstation and the DoDIMS database. The requestor will sign a nondisclosure agreement with his local ISSO before he is granted access to the JDISS workstation and the DoDIMS application.

4.2.2 Indirect Users

The only indirect users on the production DoDIMS system, client and/or server, will be the maintenance technicians. When preventive maintenance or equipment repair is taking place, either the contractors will possess TS SI/TK clearances or qualified escorts will observe to ensure that no media, memory boards, or other peripherals are inadvertently removed and that no unknown devices or components are added.

4.3 Mode of Operation

DoDIMS will operate in the system high mode at the TS SI/TK level.

4.3.1 Clearances

All personnel who are granted access to DoDIMS will possess a TS SI/TK clearance

4.3.2 Access Approval

All personnel requesting access to DoDIMS will be screened by site authorities. All users will sign nondisclosure agreements which will be kept on file by the ISSO.

4.3.3 Need to Know

Users will be granted access (read and/or write/update)only to data for which they have a need-to-know.

4.4 Accrediting Authority

The accrediting authority for DoDIMS is the Defense Intelligence Agency.

4.5 ISSO

Each site will designate and ISSO for the JDISS workstation which hosts DoDIMS.

4.6 **Configuration Management**

DIA/PO-5C in coordination with the Configuration Management Board will be responsible for the configuration management of DoDIMS. The JDISS PMO and the site configuration manager will be responsible for configuration of the JDISS.

5.0 **Accreditation Schedule**

DoDIMS will undergo accreditation during the initial operational capability (IOC) period scheduled by the DoDIMS PMO. Certification testing will be conducted prior to full operational capability (FOC).